

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/08936

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F01D17/16 F01D5/28 F01D5/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01D B23P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 14 28 171 A (GUTEHOFFNUNGSHUETTE STERKRADE) 23 January 1969 (1969-01-23)	1,7
Y	page 1, paragraph 1 - paragraph 2; figures 1,2	2-4,8,9
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 03, 30 March 2000 (2000-03-30) & JP 11 336504 A (HITACHI LTD), 7 December 1999 (1999-12-07) abstract	2-4
Y	DE 10 33 966 B (KLOECKNER HUMBOLDT DEUTZ AG) 10 July 1958 (1958-07-10) column 4, line 19 - line 70; figures 3-6 -/--	8,9

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

13 April 2004

Date of mailing of the international search report

26/04/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 380 152 A (SIKORSKI SIEGFRIED ET AL) 10 January 1995 (1995-01-10) figures 1,4 column 1, line 1 - line 30 column 2, line 19 - line 42 ---	1
Y	CH 162 526 A (ESCHER WYSS MASCHF AG) 30 June 1933 (1933-06-30) the whole document ---	1,5-9
Y	US 3 038 698 A (TROYER WILLIAM J) 12 June 1962 (1962-06-12) figures 1,2,6,7,12,14 column 1, line 10 - line 18 column 2, line 30 - line 58 column 3, line 3 - line 32 ---	1,5-9
X	DE 199 55 510 C (DAIMLER CHRYSLER AG) 21 September 2000 (2000-09-21) abstract; figures 1,2 column 4, line 13 - line 41 column 4, line 62 - line 67 ---	1,7
X	GB 545 587 A (JAMES RUSSELL KENNEDY;MICHAEL THADDIUS ADAMTCHIK) 3 June 1942 (1942-06-03) page 5, line 90 - line 93; figure 10 page 3, line 82 -page 4, line 23 -----	1

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
PCT/EP 03/08936

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 1428171	A	23-01-1969	DE 1428171 A1	23-01-1969
JP 11336504	A	07-12-1999	NONE	
DE 1033966	B	10-07-1958	NONE	
US 5380152	A	10-01-1995	DE 4237031 C1	10-02-1994
			DE 59301886 D1	18-04-1996
			EP 0596386 A1	11-05-1994
			ES 2085703 T3	01-06-1996
CH 162526	A	30-06-1933	NONE	
US 3038698	A	12-06-1962	NONE	
DE 19955510	C	21-09-2000	DE 19955510 C1	21-09-2000
GB 545587	A	03-06-1942	NONE	